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TO TO THE TOTAL OF	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/824,735	04/04/2001	Jian-Kang Zhu	205645US20	9738	
22850 7	7590 08/06/2002	MAIER & NEUSTADT PC	EXAMI	EXAMINER	
FOURTH FLO	OOR SON DAVIS HIGHWAY		BAUM, STUART F		
ARLINGTON	, VA 22202	ART UNIT	PAPER NUMBER		
			1638 DATE MAILED: 08/06/2002	2	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
09/824,735 ZHU ET AL.			
Office Action Summary	Examiner	Art Unit	111
	Stuart Baum	1638	
The MAILING DATE of this communication	n appears on the cover sheet w	th the correspondence address	
d for Ponly			
A SHORTENED STATUTORY PERIOD FOR FOR THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 Consider SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days of the period for reply is specified above, the maximum statutory if NO period for reply is specified above, the maximum statutory Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	CFR 1.136(a). In no event, however, may a on. is, a reply within the statutory minimum of this period will apply and will expire SIX (6) MOI apply and will expire SIX (6) MOI apply and will expire SIX (6) MOI apply and will expire to become A	eply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this communication (35 U.S.C. § 133).	
1) Responsive to communication(s) filed o	n		
2b)	This action is non-final.	er to the morits i	ic
3) Since this application is in condition for closed in accordance with the practice	allowance except for formal ma under <i>Ex parte Quayle</i> , 1935 C	atters, prosecution as to the ments of the m	13
Disposition of Claims	ication		
4) Claim(s) 1-42 is/are pending in the app	ithdrawn from consideration.		
4a) Of the above claim(s) is/are w	Milarawii iloili oottotaa		
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.	and/or election requirement.		
8) Claim(s) <u>1-42</u> are subject to restriction a	aria/or crocation to que		
Application Papers 9)☐ The specification is objected to by the E	xaminer.		
is/are: a)	accepted or b) objected to b	the Examiner.	
that any chiect	ion to the drawing(s) be neld in ab	syanice. Good or other transfer	
11) The proposed drawing correction filed o	n is: a)[_] approved b)[_	disapproved by the Examiner.	
If approved, corrected drawings are requi	red in reply to this Office action.		
12) The oath or declaration is objected to by	the Examiner.		
Date with condox 35 U.S.C. 88 119 and 120			
13) Acknowledgment is made of a claim for	or foreign priority under 35 U.S.	C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
Contified copies of the priority do	ocuments have been received.		
a Contisted copies of the priority de	ocuments have been received to	n Application No	
3. Copies of the certified copies of application from the Interna	the priority documents have be tional Bureau (PCT Rule 17.2(a for a list of the certified copies	not received.	
14) Acknowledgment is made of a claim for	domestic priority under 35 U.S	.C. 9 119(e) (to a provisional approx	JauUH
a) The translation of the foreign language 15) Acknowledgment is made of a claim for	made provisional application no	12 DECLI LECCIACA:	
Attachment(s)		view Summary (PTO-413) Paper No(s).	·
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PT 3) Information Disclosure Statement(s) (PTO-1449) Page 1 	O-948) 5) Notice	e of Informal Patent Application (PTO-152)	
U.S. Patent and Trademark Office	Office Action Summary	Part of Paper	r No. 8

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-22, and 32-35 drawn to an isolated polynucleotide of SEQ ID NO:1 encoding a polypeptide of SEQ ID NO:2, operably linked to a promoter, a vector I. comprising said sequences, a host cell, a plant cell, a transgenic plant, a method of making a transgenic plant and a method of increasing the salt tolerance of a plant, classified in class 800 subclass 290 for example.
 - Claims 23-25 are drawn to a process of screening for a polynucleotide, classified II.in class 435 subclass 6 for example.
 - Claim 26, and 28 are drawn to a process for detecting a nucleic acid using a probe or primer comprising at least 15 consecutive nucleotides, classified in class 435 III. subclass 6 for example.
 - Claims 27 and 29 are drawn to a method of producing a nucleic acid using PCR IV. classified in class 435 subclass 91.2 for example.
 - Claims 30-31 are drawn to a method of making a SOS2 protein, classified in class V. 435 subclass 69.1 for example.
 - Claim 36 drawn to a method of increasing the salt tolerance of a plant comprising enhancing the expression of the SOS2 gene, classified in class 800 subclass 290 VI. for example.

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VII. Claims 37-42 are drawn to an isolated polypeptide of SEQ ID NO:2 classified in class 530 subclass 370 for example.

Inventions I and VII are unrelated to each other, as are Inventions III-VI, unrelated to each other. Applicant is reminded that nucleotide sequences either encoding different proteins or specifying specific expression patterns are structurally distinct chemical compounds and are unrelated to one another, as are different proteins structurally distinct chemical compounds and unrelated to one another. These sequences are thus deemed to normally constitute **independent** and distinct inventions within the meaning of 35 U.S.C. 121. Absent evidence to the contrary, each such sequence is presumed to represent an independent and distinct invention, subject to a restriction requirement pursuant to 35 U.S.C. 121 and 37 CFR 1.141 et seq (see MPEP 803.04 and 2434). This requirement is not to be construed as a requirement for an election of species, since each nucleotide and amino acid sequence is not a member of a single genus of invention, but constitutes an independent and patentably distinct invention.

Inventions I, and VII are distinct from each other because the starting materials, method steps and end products are distinct and unrelated to each other. Furthermore, the protein of Invention VII could be made by a process other than the expression of the nucleic acid of Invention I, such as chemical synthesis or purification from the natural source, and the DNA of Invention I may be used for a process other than the production of a protein, such as a nucleic acid hybridization. Lastly, DNA and protein differ in composition, structure and function.

Inventions I and V and distinct from each other because the method steps, starting materials and end products are distinct and unrelated to each other. The vectors used in Invention V would be specific to protein production and purification whereas the vectors and

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nucleic acids used in invention I would be specific for amplification of the specific nucleic acid or expression of the protein in an in vivo environment without the purpose of isolating the protein.

Inventions II-IV are all distinct from each other because the method steps, starting materials and end products are distinct and unrelated to each other.

Inventions I and VII, II-IV, V and VI, are all distinct from each other because the starting materials, method steps and end products are distinct and unrelated to each other.

Each of Inventions I-VII are capable of being separately made, independently used, and the patentability of one does not render the others obvious or unpatentable.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, fields of search, and classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stuart Baum whose telephone number is (703) 305-6997. The examiner can normally be reached on Monday-Friday 8:30AM – 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson can be reached on (703) 306-3218. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3014 or (703) 305-3014 for regular communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the legal analyst, Kim Davis, whose telephone number is (703) 305-3015 Stuart Baum Ph.D.

July 26, 2002

ELIZABETH F. MCELWAIN
PRIMARY EXAMINER
GROUP 1600